

REMARKS

Prior to examination, Applicants respectfully request entry of this Amendment.

Claims 1-19 are pending herein. Applicants have amended claims 3-6 and 8-18 to eliminate multiple dependent claims. Attached hereto as pages 6-7, pursuant to Rule 1.121(c)(1)(ii), is a marked-up version of the amended claims. No new matter has been added. Applicants believe the case is now in condition for examination.

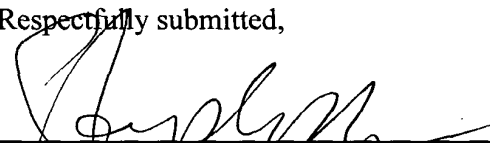
If the Examiner believes that contact with applicants' attorney would be advantageous toward the disposition of this case, he is herein requested to call applicants' attorney at the phone number noted below.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-1446.

Respectfully submitted,

July 25, 2003

Date



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3. (Currently Amended) A working-fluid moving device according to claim 1-~~or~~2, wherein the housing body is configured such that a plurality of deformable portions are formed on a single channel and such that, when each of the deformable portions is deformed, the first working fluid which is substantially in contact with the inner wall surface of the channel at the deformable portion is moved by means of the repulsive force.

4. (Currently Amended) A working-fluid moving device according to ~~any of~~ claim 1 to 3, wherein the first working fluid is an incompressible fluid, and the second working fluid is a compressible fluid.

5. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 4, wherein the first working fluid is liquid, and the second working fluid is vapor of the first working fluid.

6. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 5, wherein the first working fluid is a liquid metal.

8. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 7, further comprising an actuator for generating a force which causes deformation of at least a portion of a wall of the deformable portion, wherein at least the portion of the wall to be deformed is a diaphragm.

9. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 7, wherein deformable walls of the deformable portion comprise a pair of opposed diaphragms; and
a pair of actuators are fixedly attached to the corresponding diaphragms.

10. (Currently Amended) A working-fluid moving device according to claim 8-~~or~~9, wherein the actuator comprises a film-type piezoelectric element including a piezoelectric/ electrostrictive film or an antiferroelectric film.

11. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 8 to 10, wherein the diaphragm is a ceramic diaphragm.

12. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 11, wherein the deformable portion is formed from ceramic.
13. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 12, wherein the inner wall surface of the deformable portion is formed from ceramic.
14. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 13, wherein the inner wall surface of the deformable portion is coated with a material whose wettability to the first working fluid is low.
15. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 13, wherein the inner wall surface of the deformable portion is modified so as to assume inferior wettability to the first working fluid.
16. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 15, wherein the channel of the housing body is formed as a closed space, and the housing body comprises a volume change absorptive portion for absorbing a change in volume of the closed space associated with deformation of the deformable portion.
17. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 16, wherein deformation of the deformable portion causes the first working fluid in a single mass to break into two or more fluid masses.
18. (Currently Amended) A working-fluid moving device according to ~~any one of~~ claim 1 to 17, wherein the first working fluid is an electrically conductive fluid;
the second working fluid is an electrically insulative fluid; and
at least a pair of terminals are formed such that, before the deformable portion is deformed, the terminals assume one of an electrically connected state, in which the terminals are electrically connected via the first working fluid, and an electrically disconnected state, and such that, after the deformable portion is deformed to cause movement of the first working fluid, the terminals assume the other of the electrically disconnected state and the electrically connected state.